

Title (en)

Fastening device.

Title (de)

Befestigungsvorrichtung.

Title (fr)

Dispositif de fixation.

Publication

EP 0657130 A1 19950614 (EN)

Application

EP 94308774 A 19941128

Priority

JP 30834093 A 19931208

Abstract (en)

A fastening device (4) molded of a synthetic resin material and adapted to be engaged with a large number of loops (11a) on one surface of a fastener part (11) of a mating member (1) includes a base member (42) having on its one surface a large number of hooks (43) integrally molded with the base member and arranged in a plurality of rows (R). The hooks in each hook row generally have the same hook direction aligned with an axis of the hook row, and the hooks in one hook row and the hooks in an adjacent hook row do not always have the same hook direction. At least one hook (43a) in each hook row (R) which is adjacent to a peripheral edge of the base member have a hook direction facing outwardly away from the peripheral edge. With this arrangement, the hooks located adjacent to the peripheral edge are capable of withstanding undue force tending to fatigue and eventually break the hooks. <IMAGE>

IPC 1-7

A47H 13/04; **A44B 18/00**

IPC 8 full level

A47H 1/04 (2006.01); **A44B 18/00** (2006.01); **A44B 99/00** (2010.01); **A47G 27/04** (2006.01); **A47H 13/04** (2006.01); **A47H 15/02** (2006.01)

CPC (source: EP KR US)

A44B 18/00 (2013.01 - EP KR US); **A44B 99/00** (2013.01 - KR); **A47H 13/04** (2013.01 - EP US); **Y10T 24/27** (2015.01 - EP US); **Y10T 24/2792** (2015.01 - EP US)

Citation (search report)

- [PA] EP 0612493 A1 19940831 - YOSHIDA KOGYO KK [JP]
- [PA] EP 0619970 A1 19941019 - YOSHIDA KOGYO KK [JP]
- [A] EP 0499461 A1 19920819 - YOSHIDA KOGYO KK [JP]
- [A] EP 0464754 A1 19920108 - YOSHIDA KOGYO KK [JP]

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EP0976350A3

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0657130 A1 19950614; **EP 0657130 B1 19980701**; BR 9405016 A 19950808; CA 2137434 A1 19950609; CA 2137434 C 19980714; CN 1051216 C 20000412; CN 1111975 A 19951122; DE 69411357 D1 19980806; DE 69411357 T2 19990204; ES 2117218 T3 19980801; JP 2872555 B2 19990317; JP H07155211 A 19950620; KR 0153227 B1 19981201; KR 950017104 A 19950720; US 5615461 A 19970401

DOCDB simple family (application)

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